said inlet channel being bounded on one side by a substantially axially disposed blocking wall,

said inlet channel being flowingly connected to a substantially axially disposed first cross-axial pump and flowingly connected to a non-adjacent downstream channel, wherein said flowing connection between the inlet channel and the non-adjacent downstream channel is a direct connection free of a flowing connection to the first cross-axial pump;

said first cross-axial pump being flowingly connected to a first downstream channel, said first downstream channel being bounded by a blocking wall on an upstream side of said first downstream channel,

said first downstream channel being flowingly connected to a second cross-axial pump,

said second cross-axial pump being flowingly connected to a second adjacent downstream channel,

said second adjacent downstream channel being bounded by a blocking wall on an upstream side and a downstream axial side of said second adjacent channel,

and wherein said mixing section delivers the resulting plastified mixture to an output.

35. (New) An extruder mixer for plastified material comprising a rotatable elongated screw and means for rotating said screw, said screw having a mixing section adapted to mix plastified materials by elongational dispersion, said mixing section having an upstream inlet channel flowingly connected adjacent to one side of a downstream cross-axial pump, the upstream inlet channel constructed and arranged to directly flow into a non-adjacent channel located downstream of said downstream cross-axial pump, whereby the plastified material may flow from the upstream inlet channel directly to the non-adjacent channel without communicating through the downstream cross-axial pump.

Kindly amend claims 2-5, 7-14 and 16-20 as follows:

- 2. (Amended) The apparatus of Claim 34, wherein the cross-axial pumps are bounded by channels on more than one side.
- 3. (Twice Amended) The apparatus of Claim 34, wherein an upstream feeder is flowingly connected to cause and to control input feed of mixable materials.
- 4. (Twice Amended) The apparatus of Claim 34, where a screw channel is provided at the input of said mixer and flowingly connected to control the flow rate mixer input.
- 5. (Twice Amended) The apparatus of Claim 34, where an output flight is flowingly connected to at least one of the blocking walls of said mixing section.
- 7. (Amended) The apparatus of Claim 34, wherein the dimensions of said upstream and said downstream channels are substantially the same as each other.
- 8. (Amended) The apparatus of Claim 34, wherein said extruder screw further comprises a mounting directed in a direction wherein said extruder screw is substantially vertically oriented.
- 9. (Amended) The apparatus of Claim 34, wherein the dimensions of said upstream and said downstream channels are different from each other.
- 10. (Amended) The apparatus of Claim 34, wherein the dimensions of said upstream and said downstream cross-axial pumps are the same.

- 11. (Amended) The apparatus of Claim 34, wherein the dimensions of said upstream and said downstream cross-axial pumps are different from each other.
- 12. (Amended) The apparatus of Claim 34, wherein said channels are oriented substantially parallel to the screw axis.
- 13. (Amended) The apparatus of Claim 34, wherein said channels are oriented at an angle to the screw axis.
- 14. (Amended) The apparatus of Claim 34, wherein at least some of the channels are free of connection to said inlet channel.
- 16. (Amended) The apparatus of Claim 34, wherein said mixer includes control means for controlling said feed so that said mixer is not starve fed.
- 17. (Twice Amended) The apparatus of Claim 34, where resistance devices are provided on said screw to force said plastic material into said output.
 - 18. (Amended) The apparatus of Claim 34, wherein there are multiple inlet channels.
- 19. (Twice Amended) The apparatus of Claim 34, wherein there are multiple flowingly connected inlet flights.
- 20. (Twice Amended) The apparatus of Claim 34, wherein there are multiple flowingly connected outlet flights.